30. (NEW) The console of claim 29, wherein each packet has a time duration between 0.5-5.0 milliseconds.

31. (NEW) The console of claim 30, wherein each pause period has a time duration between 3.5-50 milliseconds.

32. (NEW) A medical system, comprising:

a handpiece that has a reciprocating tip; and,

a control circuit that is coupled to said handpiece and generates packets of pulses, each packet being separated by a pause period of no pulses.

33. (NEW) The system of claim 32, wherein each packet has a time duration between 0.5-5.0 milliseconds.

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34. (NEW) The system of claim 33, wherein each pause period has a time duration between 3.5-50 milliseconds.

35. (NEW) A console that can be coupled to a handpiece that has a reciprocating tip that can be inserted through a tissue of a patient, comprising:

a control circuit that can be coupled to the console and generates packets of pulses, each packet being separated by a pause period of no pulses so that the tip does not generate heat that denatures the tissue.

36. (NEW) The console of claim 35, wherein each packet has a time duration between 0.5-5.0 milliseconds.

37. (NEW) The console of claim 36, wherein each pause period has a time duration between 3.5-50 milliseconds.

38. (NEW) A medical system, comprising:

a handpiece that has a tip that can be inserted through a tissue of a patient; and,

a control circuit that is coupled to said handpiece and generates packets of pulses, each packet being separated by a pause period of no pulses so that said tip does not generate heat that denatures the tissue.

39. (NEW) The system of claim 38, wherein each packet has a time duration between 0.5-5.0 milliseconds.

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40. (NEW) The system of claim 39, wherein each pause period has a time duration between 3.5-50 milliseconds.

41. (NEW) A console that can be coupled to a handpiece that has a reciprocating tip that can be inserted through a cornea of a patient, comprising:

a control circuit that be coupled to the console and generates packets of pulses, each packet being separated by a pause period of no pulses so that the tip does not generate heat that denatures the cornea.

42. (NEW) The console of claim 41, wherein each packet has a time duration between 0.5-5.0 milliseconds.

43. (NEW) The console of claim 42, wherein each pause period has a time duration between 3.5-50 milliseconds.

44. (NEW) The console of claim 41, wherein the temperature does not exceed 45 degrees centigrade.

~~45.~~ (NEW) A medical system, comprising:

a handpiece that has a tip that can be inserted through a cornea of a patient; and,

a control circuit that is coupled to said handpiece and generates packets of pulses, each packet being separated by a pause period of no pulses so that said tip does not generate heat that denatures the cornea.

46. (NEW) The system of claim 45, wherein each packet has a time duration between 0.5-5.0 milliseconds.

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47. (NEW) The system of claim 46, wherein each pause period has a time duration between 3.5-50 milliseconds.

48. (NEW) The system of claim 45, wherein the temperature does not exceed 45 degrees centigrade.

~~49.~~ (NEW) A method for performing an ophthalmic procedure, comprising:

inserting a tip into a cornea;

moving the tip with a plurality of pulse packets, each pulse packet being separated by a pause period so that the tip does not generate heat which denatures the cornea.

50. (NEW) The method of claim 49, wherein each pulse packet has a time duration between 0.5-5.0 milliseconds.

51. (NEW) The method of claim 50, wherein the pause period has a time duration between 3.5-50 milliseconds.

52. (NEW) The method of claim 49, wherein the temperature does not exceed 45 degrees centigrade.

~~53~~. (NEW) A medical system, comprising:

a cutting element;

a transducer coupled to said cutting element; and,

a control circuit that is coupled to said transducer and generates packets of pulses, each packet being separated by a pause period of no pulses.

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54. (NEW) The system of claim 53, wherein each packet has a time duration between 0.5-5.0 milliseconds.

55. (NEW) The system of claim 54, wherein each pause period has a time duration between 3.5-50 milliseconds.

~~56~~. (NEW) A medical system, comprising:

a cutting element that can be placed in contact with a tissue of a patient;

a transducer coupled to said cutting element; and,

a control circuit that is coupled to said transducer and generates packets of pulses, each packet being separated by a pause period of no pulses so that said tip does not generate heat that denatures the tissue.

57. (NEW) The system of claim 56, wherein each packet has a time duration between 0.5-5.0 milliseconds.

58. (NEW) The system of claim 57, wherein each pause period has a time duration between 3.5-50 milliseconds.

59. (NEW) A medical system, comprising:

a cutting element that can be placed in contact with a cornea of a patient;

a transducer coupled to said cutting element; and,

a control circuit that is coupled to said transducer and generates packets of pulses, each packet being separated by a pause period of no pulses so that said tip does not generate heat that denatures the cornea.

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60. (NEW) The system of claim 59, wherein each packet has a time duration between 0.5-5.0 milliseconds.

61. (NEW) The system of claim 60, wherein each pause period has a time duration between 3.5-50 milliseconds.

62. (NEW) The system of claim 59, wherein the temperature does not exceed 45 degrees centigrade.

63. (NEW) A method for performing an ophthalmic procedure, comprising:

placing a cutting element into contact with a tissue of a patient;